

**Tetra Tech, Inc.**

4213 State Street, Suite 100  
 Santa Barbara, CA 93110-2847  
 VOICE (805) 681-3100 FAX (805) 681-3108

Project: **Vandenberg Air Force Base**Log of Well No. **13-MW-8**

Location: OU4, Site 13, ABRES-A Canyon approx. 100 ft. south of  
 Building 1788.

Date Started: 9/19/97 Completed: 9/19/97

Logged By: J. Rohrer Checked By: K. McNamara, R. G.

Drilled By: B. Carpenter, S/G Testing *KM #6678*

Drilling Equipment: CME 750, 8" and 10" HSA

Sampling Equipment: 2-inch I.D. Split Spoon

GS Elev.: 88.2 ft above MSL TD: 20.5 ft bgs

4" PVC Blank Casing: from 0 ft bgs to 4 ft bgs

0.010 " Screening Casing: from 4 ft bgs to 14 ft bgs

Concrete: from 0 ft bgs to 2 ft bgs

Bentonite Transitional Seal: from 2 ft bgs to 3 ft bgs

Sand Filter Pack: from 3 ft bgs to 15 ft bgs

TOC Elev.: 90.84 ft above MSL

Depth (ft. bgs)	MATERIAL DESCRIPTION	Material Symbol	Material Type	Well Construction	Sample	Blow Counts per 6"	Percent Recovery	PID (ppm) Amb/Smp	REMARKS
5	<u>silty sand</u> , very dark grayish brown (2.5Y 3/2), fine grained, poorly graded, subrounded, dry, little silt, trace angular fine gravel, alluvium.  loose.		SM			6 5 4	50	0/1.1  0/5	Start drilling 0940.
10	<u>gravelly sand</u> , light olive brown (2.5Y 5/3), medium grained, poorly graded, rounded, loose, wet, some fine and coarse angular gravel, trace fine rounded gravel, trace silt, 2 inch thick lense of sandy clay at top of drive that is black (2.5Y 2.5/1), very soft, some fine grained rounded sand, alluvium.		SP			4 3 4	100	0/5	Groundwater encountered at 8.5 ft bgs.
15	<u>silty sand with gravel</u> , very dark grayish brown (2.5Y 3/2), fine grained, poorly graded, rounded, very loose, wet, some silt, little fine and coarse angular gravel, trace clay, alluvium.		SM			1 1 1	100	0/0	
20	<u>shale</u> , yellowish brown (10YR 5/6), friable, some chert and hard siliceous shale laminations, Monterey Formation.		Shale			8 22	100	0/0	Hard drilling at 18 ft bgs.

8.5 ft. bgs. ▼ Groundwater depth during drilling 8.78 ft. bgs. ▽ Groundwater depth after well development on: 10/9/97

TC Number: A224-02

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25			Shale		X	50			End drilling at 1040. T.D. of 8 inch pilot hole is 20 ft 6 inch. Ream with 10 inch auger to 15 ft. Construct 4 inch well using 0.01 inch Vee wire screen.
30									
35									
40									
45									